LAPOTYSHKIN, N.M., kand.tekhn.nauk; MIRONOV, L.V., kand.tekhn.nauk;

KUROEOVA, N.A., inzh.; BARANOVA, N.A., inzh.; EELYAKOV, A.I., inzh.

Structure of cold-rolled transformer steel. Metalloved. i term.

obr. met. no.12:26-29 D '62.

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy

metallurgii, Ural'skiy nauchno-issledovatel'skiy institut chernykh

metallurgii Nevosibirskiy metallurgicheskiy zavod.

(Steel--Magnetic properties)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000928620012-1"

s/133/62/000/001/002/010 A054/A127

Lapotyshkin, N. M., Boychenko, M. S., Candidates of Technical Sciences, Leytes, A. V., Akimova, Ye. I., Slivchanskaya, V. V., Engi-AUTHORS:

Special features of crystallization in continuous casting neers

TITLE: Stal, 7

There is no definite opinion concerning the effect of the crystallization rate on the grain structure and chemical composition of continuous castings. To solve this problem, tests were carried out at the TsNIIChM and a PERIODICAL: new method was applied to determine the crystallization rate, which is based on the distance between the dendrite axes: when the solidification rate is increased, the interaxial distance; between secondary dendrites decreases. The tests were carried out with carbon steel and transformer steel. To obtain a clear picture of the dendritic etrecture the carbon steels were water-handened at OFO - 1 OFC of the dendritic structure, the carbon steels were water-hardened at 950 - 1,050°C and annealed (in water) at 650°C. or the dendritic structure, the carpon steers were water-maruened at 970 - 1,000 or and annealed (in water) at 650°C. The crystallization rate at various depths was also checked by introducing the radioactive isotope of sulfur (\$35), for "45" and (m 2 fet 2) steels round at 2 0 7 m/min rate at various depths was CT .3 (St.3) steels, poured at a 0.7 m/min rate in crystallizers, 200 x 200 mm

Card 1/4

CIA-RDP86-00513R000928620012-1" **APPROVED FOR RELEASE: 08/31/2001**

Special features of ...

S/133/62/000/001/002/010 A054/A127

and 175 x 420 mm size. The St.3 steel was partly poured in a stationary 175_x 420 mm crystallizer and partly by bottom pouring, into conventional molds (180 x 560 and 300 x 300 mm in size). The metal temperature prior to pouring was 1,560 -1,570°C, the pouring rate in the continuous equipment: 0.7 m/min and in the standard molds: 0.4 - 0.6 m/min. The macrostructural tests showed that the zone of acicular dendrites was about twice that of the ingots obtained in the standard mold. The density of the dendrite zone in continuous casting was also higher than in the standard ones. By measuring the interaxial distance between dendrites it was found that the solidification rate in continuous castings was about 30% higher than in the standard molds. The difference was most striking in a 10 -50 mm thick layer under the surface of the casting. The surface-to-vlume ratio also affects the solidification rate: the 300 \times 300 mm ingots solidify slower than the 180 x 560 mm ingots. The interaxial distance of secondary dendrites in carbon steel and transformer steel ingots first increased steadily, upon approximating the axial zone of the ingot, then decreased slightly due to the change in the ratio of the solidifying surface to the volume of the still liquid metal. Other factors of continuous casting (the carbon content of the steel and its temperature in 200 x 200 mm ingots, the rate of pouring and the intensity of second-

Card 2/4

STATE OF THE PROPERTY.

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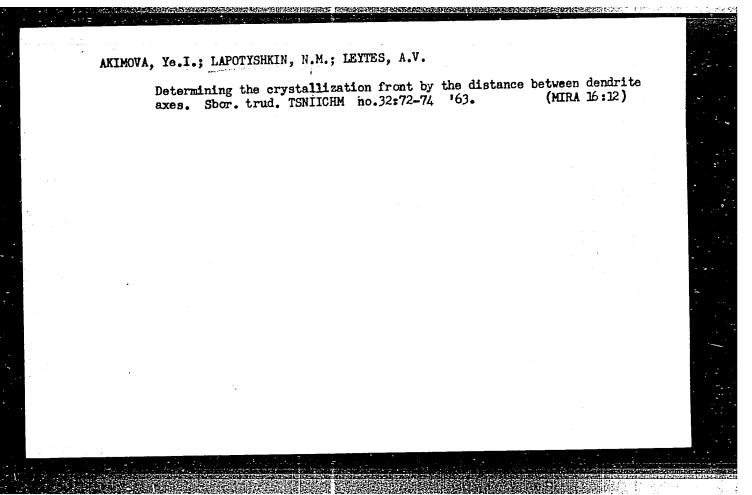
CIA-RDP86-00513R000928620012-1"

s/133/62/000/001/002/010 A054/A127

ary cooling) were also studied. In these tests, 4 heats of "45" steel and y 7 (U7) steel were investigated. The increase in temperature during the pouring of Special features of ... U7 steel slightly reduced the crystallization rate. An increase in the pouring rate (from 0.5 to 0.7 m/min) decreased the solidification rate by about 0.3 cm/min. As to the intensity of secondary cooling, it was established that if 2 l/sec cooling water (0.5 1 per 1 kg steel) were consumed, the solidification rate somewhat increased, while upon raising the water consumption to 5 l/sec, this had no effect on the average solidification rate. The relation between the crystallization rate in the cross section of the ingot, the structure and the distribution of nonmetallic inclusions was studied in 200 x 200 mm continuous castings. The distribution of inclusions depended in the first place on the arrangement of structural zones. The smallest amount of inclusions was found in the fine-grained zone of the skin, while the amount of inclusions increased in the zone of acicular grains and still more in the transient zone between acicular and spheroidal grains. Dendritic liquation was studied in continuous and standard castings of transformer steel with 4.2 - 4.4% Si content, by comparing the microhardness of the dendrite axes and of the interaxial zones.

interaxial zones than for the axial parts. degree of dendritic liquation, which was higher for the standard castings than

Card 3/4 Car



MANOKHIN, A.I.; LAPOTYSHKIN, N.M.

Microheterogeneity and the quality of continuous ingots. Stal' 25 no.10:894-897 0 '65. (MIRA 18:11)

l. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii imeni I.P. Bardina.

LAPOTYSHKINA, N. P. -- "Investigation of Amien Exchange Under Dynaxic Conditions With an Organic Absorption Apparatus." Sub 5 har 52, All-Minon Order of Labor Red Banner Heat Ingineering Joi Res fair iweni F. E. Dzerzhinskiy. (Miscartation for the Degree of Jandidate in Technical Sciences):

SO: Vectornaya Moskva, January-December 1952

AUTHOR:

Lapotyshkina N.P., Candidate of Technical Sciences.

TITLE:

The scheme of successive H-Na cation treatment - A method of producing chemically purified water of low alkalinity. (Skema posledovatel'nogo H-Na kationirovaniya - metod polucheniya khimicheski ochishchennoy-

vody so snizhennoyshchelochnost'yu.)

and the committee of th

PERIODICAL:

"Teploenergetika" (Thermal Power), 1957, Vol.4, No.7, pp. 43 - 46 (U.S.S.R.)

ABSTRACT:

An important task in water preparation is to reduce the akalinity of the water. Existing systems of H-Na treatment differ in this respect. Parallel H and Na treatment does not afford the possibility of maintaining the alkalinity of the filtrate below 0.5 mg.equiv/litre with manual control of the relationship between the H and Na treatment. This procedure also requires excessive quantities of sulphuric acid for regeneration and it also is necessary to protect the drainage system of the H filters from sulphuric corrosion.

Card 1/6

Combined H-Na treatment can give a filtrate with a mean alkalinity not less than 1.5 - 2 milligram.equiv/1.

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The scheme of successive H-Na cation treatment - A method of producing chemically purified water of low alkalinity. (Cont.) 96-7-10/25

Moreover if the non-carbonate hardness is high there is some risk of deterioration of the softening effect. The procedure of successive H-Na cation treatment with a reduced quantity of acid for regeneration of the H filters offers the best possibility of reducing the alkalinity of the water during the process of softening. The essentials of this procedure consist in filtering the previously clarified water through an H-cation filter, then decarbonising it and finally treating on Na cation filters. The technology of softening with the use of cationites regenerated with insufficient acid was developed on a laboratory scale by F.G. Prokhorov and N.P. Subbotina (Teploenergetika No. 3, 1955). As a result of such regeneration the H cation filter operates on an alkaline regime and during the whole working cycle produces filtrate of definite alkalinity. The degree of alkalinity can be controlled by varying the quantity of acid used for regeneration.

With the usual cation regeneration conditions when

Card 2/6

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The scheme of successive H-Na cation treatment - A method of producing chemically purified water of low alkalinity. (Cont.) 96-7-10/25

regeneration takes place with excess acid the H cation treatment is complete and the cations of all salts dissolved in the water are removed. Therefore, the filtrate has an acidity corresponding to the sum of sulphates and chlorides in the intake water. Decrease in the quantity of acid used in regeneration causes the process to take place differently. In this case, the hydrogen ions are expended in removing only the parts of carbonate hardness, all the remaining cations, equivalent to the quantity of sulphates and chlorides and also to a given remanent alkalinity take no part in the process and pass into the filtrate. Figs. 1 and 2 give graphs of the quality of the filtrate from an H filter working in the alkaline condition depending on the concentration of bicarbonate salts in the initial water. It follows from the test data that strict constancy of akalinity is not observed throughout the working cycle but that it steadily drops to a minimum value and then increases until the filter is

Card 3/6

The scheme of successive H-Na cation treatment - A method of producing chemically purified water of low alkalinity. (Cont.) 96-7-10/25

replaced for regeneration. It is shown that water with lower carbonate content gives a filtrate of more constant alkalinity.

Another special feature of the process is a steady 'running-in' of the H-cation filter to a given alkaline condition. The filter usually has to be run several times with the same quantity of regenerating acid before it finally settles down. Thereafter the filter is less sensitive to variations in the quantity of acid used for regeneration and to the composition of the feed water. The decarbonisation part of the circuit and also the operation of the Na-cation filters are quite normal. A test on H-cation filters run in this way under full scale conditions gave data on the relationship between the absorption capacity and the alkalinity of the initial water and filtrate as is shown in a table.

Card 4/6

A circuit is given which produces water of practically zero alkalinity. The first part of the installation consists of H-cation filters working under

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The state of the s

The scheme of successive H-Na cation treatment - A method of producing chemically purified water of low alkalinity. (Cont.)

96-7-10/25

conditions of zero alkalinity which may occasionally give acid filtrate and a buffer cation filter which is used to neutralise acidity and excess alkalinity. The buffer filter may operate on the self-regeneration

When the feed water must have an alkalinity of 0.3 - 0.4 mg.equiv/litre and simultaneously be very soft, use may be made of a system of successive H-Na cation treatment with the early stages branched, the first part of such an installation includes two kinds of filters, the first or main filter is of the H-cation type regenerated with the theoretical quantity of acid. One or two Na cation filters are used to neutralise the acidity in the water produced. These are correction filters and are operated as necessary. Beyond these two sections the water is a mixture of H and Na cation treated water which is of the necessary alkalinity and some hardess which is softened in the Na-cation filters of the latter part of the installation.

Card 5/6

The scheme of successive H-Na cation treatment - A method of producing chemically purified water of low alkalinity. (Cont.)

If the initial water is of high mineral content and its non-carbonate hadness is above 3 mg.equiv/litre and the alkalinity must be reduced to 0.3 - 0.4 mg.equiv/l two-stage Na-cation treatment is necessary.

There are 5 figures.

ASSOCIATION: All-Union Thermo-technical Institute. (VTI)

Card 6/6

AUTHOR:

Lapotyshkina, N.P., and Shapkin, I.F. SOV-90-58-10-5/9

TITLE:

The Experimental Testing of an Instrument for the Magnetic Processing of Water (Experimental'noye oprobovaniye pribora dlya magnitnoy obrabotki vody)

PERIODICAL:

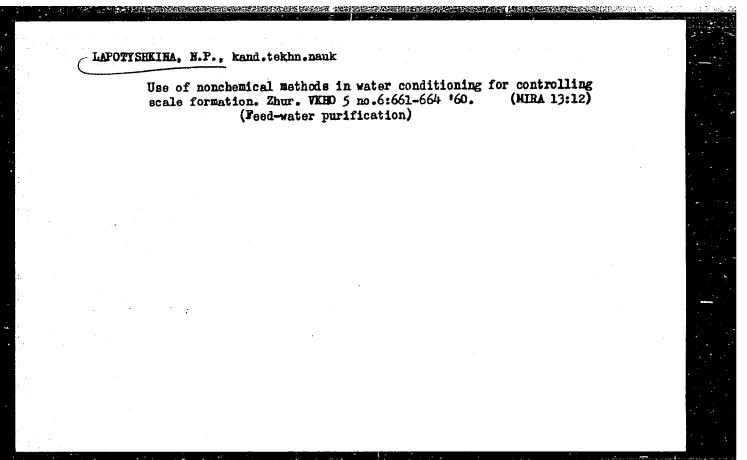
Energeticheskiy byulleten', 1958, Nr 10, pp 14 - 16 (USSR)

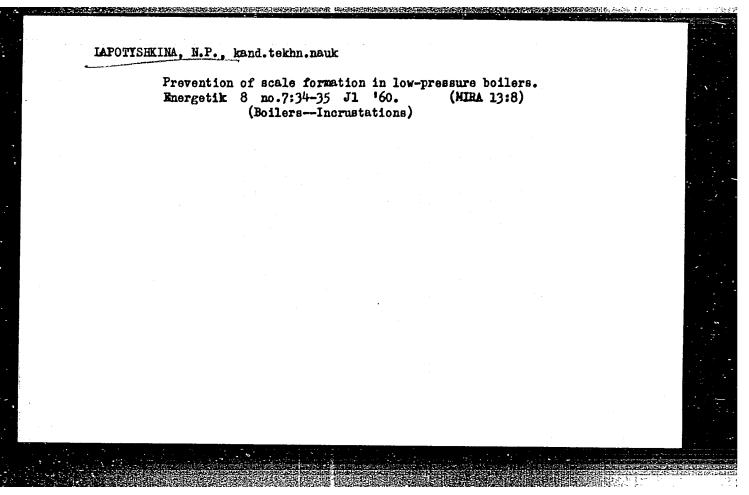
ABSTRACT:

The authors describe an experiment to determine the efficiency of an instrument (designation SERI) produced by a Belgian firm for the magnetic processing of water to prevent scale formation in heat exchanging devices. The experiment was carried out by the water department of VTI (The All-Union Power Engineering Institute imeni Dzerzhinskiy) with two different types of water; water from the Moscow water supply and the more highly mineralized water from the Terny water reservoir (Donbass). There are 3 tables and 1 diagram.

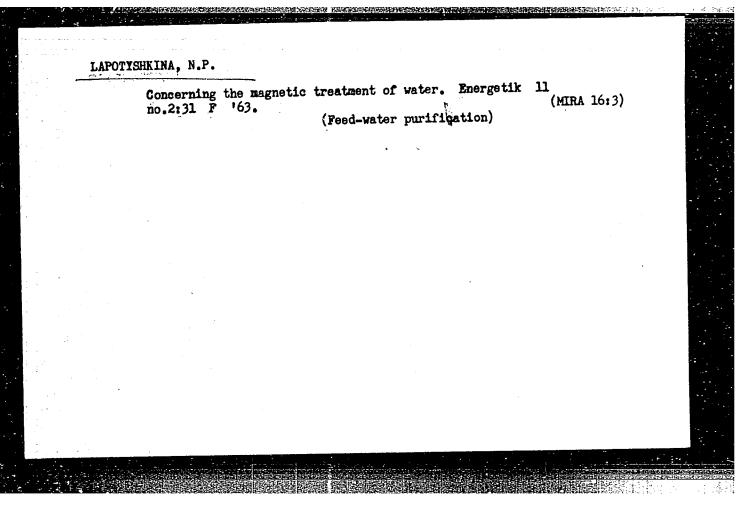
1. Water—Processing 2. Instruments—Performance 3. Instruments—Testing equipment 4. Heat exchangers—Scale 5. Magnetic fields—Applications

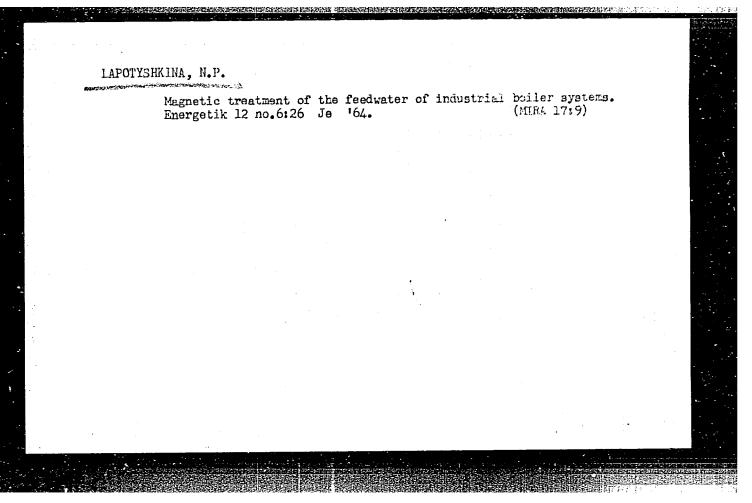
Card 1/1





Experience in using magnetic water treatment in a closed heat supply network. Elek.sta. 32 no.6:27-28 Je '61. (MIRA 14:8) (Heating from central stations) (Water-Purification)





PHASE I BOOK EXPLOITATION

sov/5139

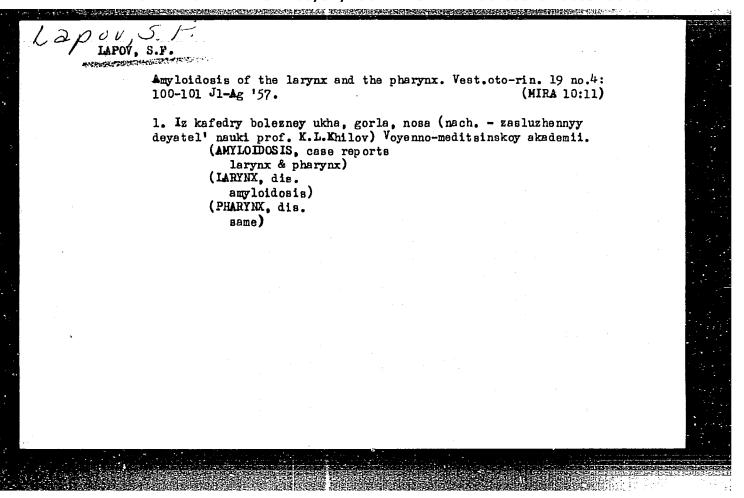
- Abrikosov, S. V., A. P. Alekseyev, N. M. Zotov, G. F. Kudryashov, N. I. Lapov, V. P. Lebedev, and Ye. Ye. Chekmenev
- Benzoelektricheskiye i dizel'-elektricheskiye agregaty moshchnost'yu ot 0.5 do 400 kvt; spravochnik (Gasoline- and Diesel-Engine ot 0.5 do 400 kvt; spravochnik (Gasoline- and Diesel-Engine Electric Generating Sets, 0.5 to 400 kw Capacity; Handbook) Moscow, Mashgiz, 1960. 543 p. Errata slip inserted. 7,000 copies printed.
- Ed. (Title page): V. P. Lebedev, Engineer; Reviewer: Ye. A.

 Meyerovich, Engineer; Ed. of Publishing House: V. I. Rybakova;
 Tech. Ed.: T. F. Sokolova; Managing Ed. for Information Literature: I. M. Monastyrskiy, Engineer.
- PURPOSE: This handbook is intended for technical personnel concerned with the design and operation of electric generating sets.
- COVERAGE: The handbook contains technical data on gasoline- and Diesel-engine electric generating sets with a capacity of 0.5 to 400 kw. Prime movers, electric generators, and electrical

Card 1/6

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Gasoline- and Diesel-Engine (Cont.) SOV/5139 equipment, as well as the materials required for the selection and designing of generating sets are discussed. The handbook also gives information on the basic requirements for the operation of the sets and on the automation of their control. No personalities are mentioned. There are 34 references, all Soviet. TABLE OF CONTENTS: Introduction 3 4 Ch. I. Gasoline-Engine Generating Sets 4 Technical data 14 Structural designs Electric circuits 32 48 Ch. II. Diesel-Engine Generating Sets 48 Technical data Structural designs Card 2/6>



LAPOV, S.F.; SOLDATOV, V.S. (g. Arkhangel'sk)

Trepanopuncture of the frontal simus. Zhur. ush., nos. i gorl. bol. 23 no.4491-92 Jl-Ag'65. (MIRA 16:10)

(FRONTAL SINUS — SURGERY)

KAVETSKAYA, A.C.; LAPOVA, A.I., starshiy inzhener-agrometeorolog; SUKNEVA, Te.V., starshiy inzhener-klimatolog; VLADIHIROVA, H.V., inzh.-agrometeorolog; KURIYEV, M.I., inzh.-agrometeorolog; TSERTSVADZE, Sh.I.; CHIRAKADZE, G.I., dotsent, starshiy nauchnyy sotrudnik; BABAYEV, A.D., otv.red.; USHAKOVA, T.V., red.; VOLKOV, H.V., tekhn.red.

THE REPORT OF THE PROPERTY OF

[Concise agroclimatic reference book on the Azerbaijan S.S.R.]
Kratkii agroklimaticheskii spravochnik po Azerbaidzhanskoi SSR.
Leningrad, Gidrometeor.izd-vo, 1959. 67 p. (NIRA 13:2)

1. Azerbaydzhanskaya S.S.R. Upravleniye gidrometeorologicheskoy sluzhby. 2. Zaveduyushchiy otdelom agrometeorologii Tbilisskogo Nauchno-issledovatel skogo gidrometeorologicheskogo instituta (for TSertsavadze). 3. Nachal nik Upravleniya gidrometeorologicheskoy sluzhby Azerbaydzhanskoy SSR (for Babayev).

(Azerbaijan--Crops and climate)

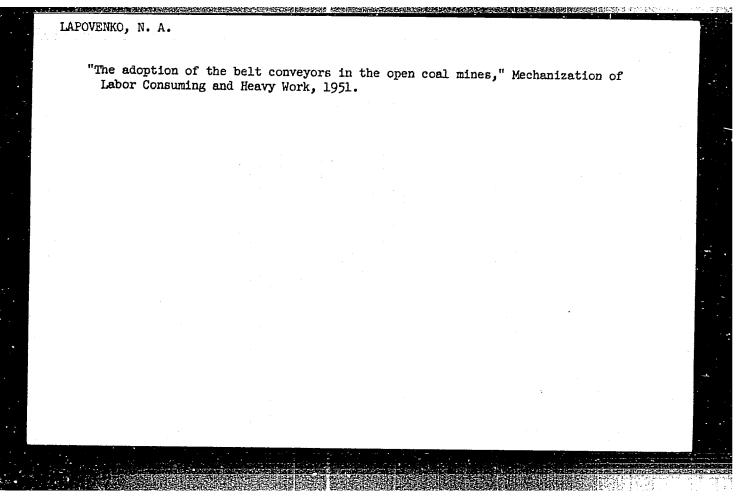
USSE/Mining
Mining Equipment
Coal

"Standardization of Cars in Coal Mines of the
Eastern Regions of the USSE," M. G. Kaznachevskiy,
N. A. Lapovenko, Giprovostokuglemash, 2 pp

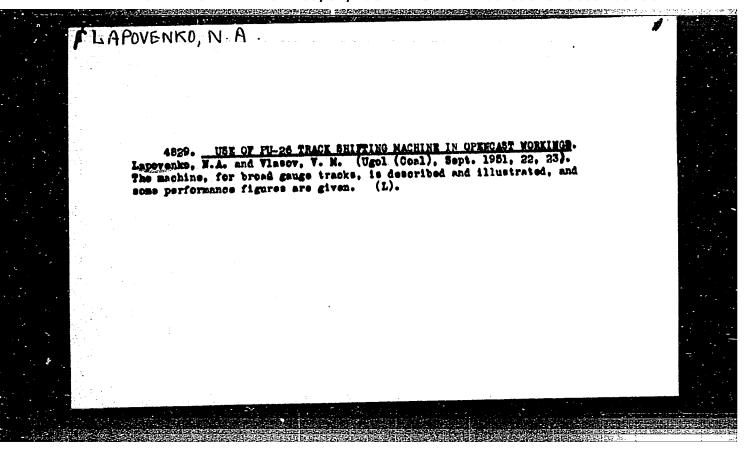
"Ugol:" No 12 (275)

Mines in eastern regions use various types of cars.
This adds to production costs and coaplicates organization of mine operation. Suggests standardized cars for all mines and recommends certain basic data for determining the optimum shape and type of mine car.

20/49789



APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000928620012-1"



LAPOVENKO, H. A.

LAPOVENKO, N. A. -- "Establishment of a Design and the Experimental-Theoretical Investigation of Alements in a Belt Conveyer for Goal Carriers." Sub 2 Oct 52, Moscow Mining Inst imeni I. V. Stalin. (Dissortation for the Degree of Candinate in Technical Sciences).

SO: Vechernaya Moskva, January-December 1952

LAPOVENKO, N. A.

Dumping Appliances

Belt conveyor dumper LO-1. Mekh. trud. rab. 7, no. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Unclassified.

Card 1/1	맞았다. 사람들 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사
Authors	: <u>Lapovenko, N. A.</u> , Cand. of Techn. Scs.; and Samoylyuk, N. D., Recipient
Title	: Bibliography: Valuable guide book on mine transportation
Periodical	: Mekh. Trud. Rab. 2, 47, March 1954
Abstract	: A critique is present.
	A critique is presented on the book entitled "Mine Transportation" written by Prof., Member corresp. of the Acad. of Scs. USSR, A. O. Spivakovskiy and published by Ugletekhizdat. The material of the book is thoroughly systematized, arranged in order and clear. The text of considered good.
nstitute	
nstitute ibmitted	is thoroughly and published by Ugletekhizdat. The material again.

SPIVAKOVSKIY, A.O.; MEL'NIKOV, N.V.; YEVNEVICH, A.V.; TOPCHIYEV, A.V.;

LAPOVENKO, N.A.; EESPALOV, B.F., otvetstvennyy redektor;

KAHASKOVA, T.P., tekhnicheskiy redektor

[Equipment for mine transportation, an album of designs] Oborudovanie rudnichnogo transporta; atlas Konstruktsii. Moskvs, Ugletekhizdat.

Pt.2. [Haulage in open-cut mining] Transport na otkrytykh razrabotkakh.

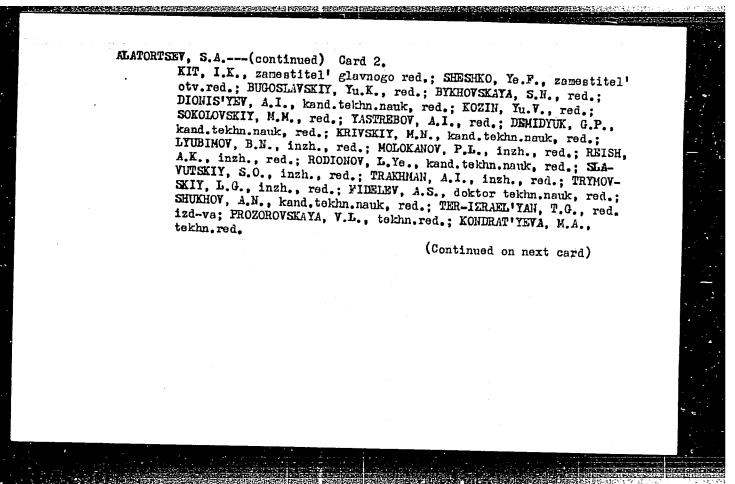
(Mine haulage)

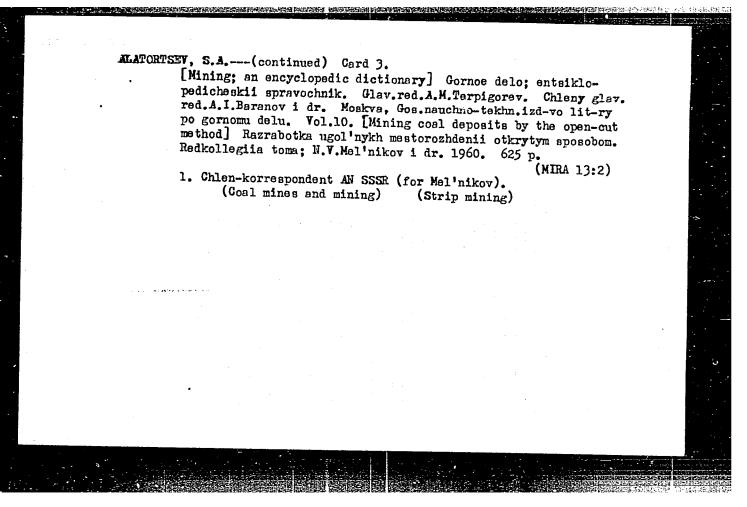
(Mine haulage)

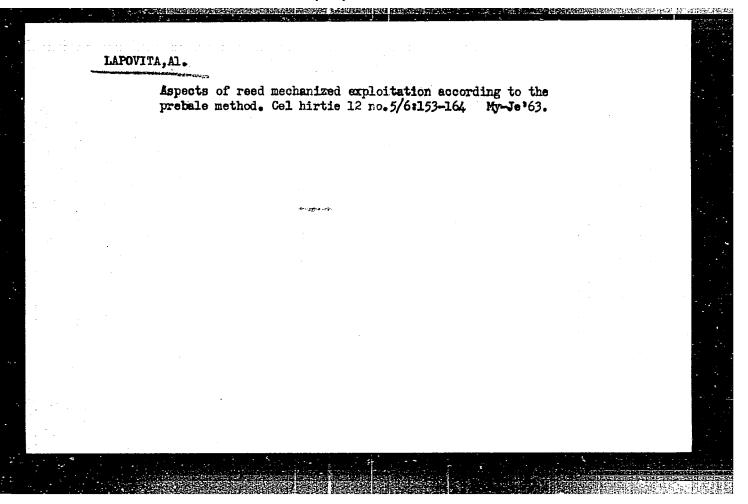
LAPOVENKO, NA.

ALATORISEV, S.A., prof., doktor tekhn.nauk; ANDREYEV, A.V., kand.tekhn. nauk; ANCHAROV, I.L., inzh.; BALINSKIY, S.I., inzh.; BELOUSOV, V.G., inzh.; VINNITSKIY, K.Ye., kand.tekhn.neuk; VLASOV, V.M., inzh.; VORONTSOV, N.P., kand.tekhn.nauk; GIPSMAN, M.K., inzh.; GLUZMAN, I.S., kand.tekhn.nauk; GUR'YEV, S.V., kand.tekhn.nauk [deceased]; DEMIN, A.M., kand.tekhn.nauk; YEGURNOV, G.P., kand.tekhn.nauk; YEFIMOV, I.P., inzh.; ZHUKOV, L.I., kand.tekhn. nauk; ZEL'TSER, N.M., inzh.; KOSACHEV, M.N., kand.tekhn.nauk; KOTOV, A.F., inzh.; KUDINOV, G.P., inzh.; LAPOVENKO, N.A., kand. tekhn.nauk; MAZUROK, S.F., inzh.; MEL'NIKOV, N.V.; MUDRIK, N.G., inzh.; NIKONOV, G.P., kand.tekhn.nauk; ORLOV, Ye.I., inzh.; POTAPOV, M.G., kand.tekhn.nauk; PRISEDSKIY, G.V., inzh.; RZHEVSKIY, V.V., prof., doktor tekhn.nauk; RYAKHIN, V.A., kend. tekhn.nauk; SIMKIN, B.A., kand.tekhn.nauk; SITNIKOV, I.Ye., inzh.; SOROKIN, V.I., inzh.; STASYUK, V.N., kand.tekhn.nauk; STAKHEVICH, Ye.B., inzh.; SUSHCHENKO, A.A., inzh.; TYUTIN, I.F., inzh.; TYMOVSKIY, L.G., inzh.; FISENKO, G.L., kand. tekhn. nauk; FURMANOV, B.M., inzh.; SHATAYEV, M.G., inzh.; SHESHKO, Ye.F., prof., doktor tekhn.nauk; TERPIGOREV, A.M., glavnyy red. [deceased]: (Continued on next card)

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APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000928620012-1"

GENDELEV, S.Sh.; LAFOVOK, B.L.; HUBINSHTEYN, B.Ye.

Nickel ferrite single crystals with a narrow ferromagnetic resonance line. Fiz. tver. tela 5 no.10:3037-3038 0 *63. (MIRA 16:11)

L 17123-65 EWT(1)/EWT(m)/EEC(t)/EWP(b)/EWP(t) Peb AEDC(a)/ASD(a)-5/AS(mp)-2/AFWL/RAEM(a)/RAEM(j)/ESD(t)/IJP(c) JD ACCESSION NR: AP5000649 S/0181/64/006/012/3538/3544

AUTHOR: Rubinshteyn, B. Ye.; Titova, A. G.; Lapovok, B. L.

TITLE: Ferromagnetic resonance in single crystals of yttrium iron-indium garnet

SOURCE: Fizika tyerdogo tela, v. 6, no. 12, 1964, 3538-3544

TOPIC TAGS: ferromagnetic resonance, yttrium iron garnet, single crystal, mixed garnet, relaxation effect, anisotropy, line width

ABSTRACT: In view of the fact that relaxation effects, the anisotropy fields, and the g-factor of mixed garnets can be investigated only with single-crystal samples, and earlier investigations were devoted essentially to polycrystalline samples, the authors present results of an experimental investigation of ferromagnetic resonance in single crystal garnets $Y_3Fe_{5-x}In_xO_2$ with $0 \le x \le 0.48$. The tests were made in the temperature interval between 77K and the Curie temperature. The single crystals were obtained using yttrium oxide from the same batch to maintain the amount of impurities constant. The samples were in the form of spheres > 0.5 mm in diameter, produced

L 17123-65 ACCESSION NR. AP5000649

by air blasting and polishing. The ferromagnetic resonance investigations were made at 9100 Mcs in a through-type cavity operating in the TE₀₁₅ mode, using a measurement procedure analogous to that described by A. G. Gurevich at al. (PTE No 1, 73, 1963). The temperature dependence of the line width and of the first crystallographic anisotropy constants were obtained for all the investigated samples. The results show that the effective g-factor of the substituted garnet decreases with increasing x, and an explanation is proposed for this effect. "The authors thank A. G. Gurevich for interest in the work and for numerous discussions, C. Sh. Gendelev for fruitful discussions of questions connected with the crystallographic features of garnet structure, and T. N Bushyuev for help with the numerous and laborious measurements." Orig. art. has: 6 figures and

ASSOCIATION: None

SUBMITTED: 18May64

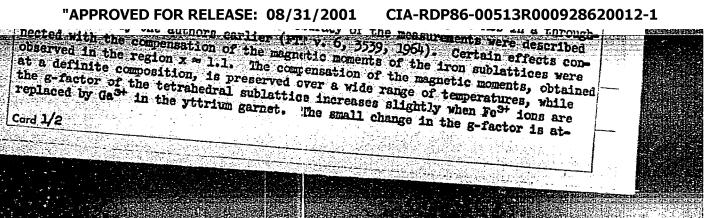
SUB CODE: 88,EM Card 2/2

ENCL:

OTHER: 010

L 65253-65 EWT(1)/EWT(a)/EPF(c)/EWP(t)/EWP(b) ACCESSION NR: IJP(c) JD/WW/GG AUTHOR: Rubinshteyn, B. UR/0181/65/007/006/1639/1641 ; Titova, A. G.; Lapovok, B. L. TITIE: Compensation of magnetic moments of sublattices in yttrium iron-gal SOURCE: Fizika tverdogo tela, v. 7, nd. 6, 1965, 1639-1641 TOPIC TAGS: yttrium, iron, garnet, magnetic moment, ferromagnetic resonance, single ARSTRACT: The authors investigated the ferromagnetic resonance in single-crystal garnets YsFes-xGaxO12, obtained from a nelt consisting of the components and of Poo and Phrs. The values of x in the garnet were 0.3, 0.7, 0.8, 0.95, 1.1, 1.5, 2.2, and 2.4. The samples were spherical of ~ 0.5 mm diameter, and were polished with abrasive. The ferromagnetic resonance was investigated at ~ 9100 Mcs in a throughtype TELOS cavity. The procedure and accuracy of the measurements were described and discussed by the authors earlier (FT. v. 6, 3539, 1964).

CIA-RDP86-00513R000928620012-1



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ACCESSION NR: AP5014556			

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investigated garnets were	pults. The measurements	o ions are very close. "The the work and A. C. Gurevich the magnetic moment of the rig. att. has: 2 figures and	
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				Sep 53	VII. Con- zene," N.G. em, Centrel	512	has been shown that the alkylation of aromatic rocarbons by cyclic alcohols, in the presence of 13, gives good yields of monoalkylated products.	condensation of	coorcy presence of AlCl ₂	yields he theo t con-	in n-cyclo a mixture lohexyl	er pre- II in the not be	oly-		2681129		•	
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			•			No 9, pp	the alkylation of a alcohols, in the pi	method was tested on halogenated benzenes, ially oblorobenzene (I). The condensation		+ 4	at r	sed, with the sation of I secid (III) co	dehydrating					_
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				. 1		Chim, Vol	shown that the by cyclic algood yields	Inis method was tested or especially chlorobenzene	cyclohexanol (II)	Brudled, and the concretelohexyl chlorobenze cal were determined.	densation conducted under hexyl chlorobenzene, where of o-cyclohexyl chloroben	chlorobenzene is obtained, dominating. The condensat presence of phosphoric aci	acts •					
				USSR/Chemistry	ylat of and		It has been show hydrocarbons by AlCl3, gives goo	method w		cyclohexyl	chloroby	ting.	ed. III ng agent.	. 1.	,			
		•		USSR/C	"Cycloally densation Sidorova Asiatic	Zbur (It has hydroc AlCl3,	This I	I with	was stud of cycle retical	hexyl of o-c	chlorobenzen dominating. presence of	merizing					
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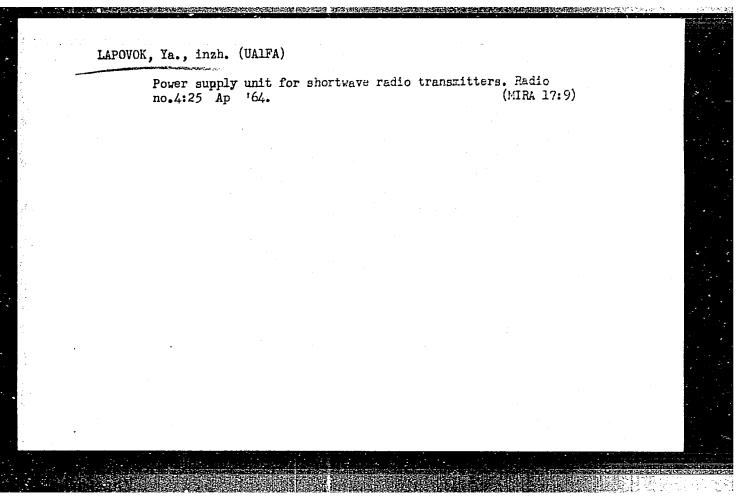
LAPOVOK, L. YA

Lapovok, L. Ya and Revyakin, E. P. - "On the features of peripheral circulation in patients suffering from hypertonic condition," In symposium: VIII Jessiya Neyrokhirurg. i s8veta i Leningr. in-ta neyrokhirurgii (Akad. med. naukk 5532), Noscou, p. 67-69

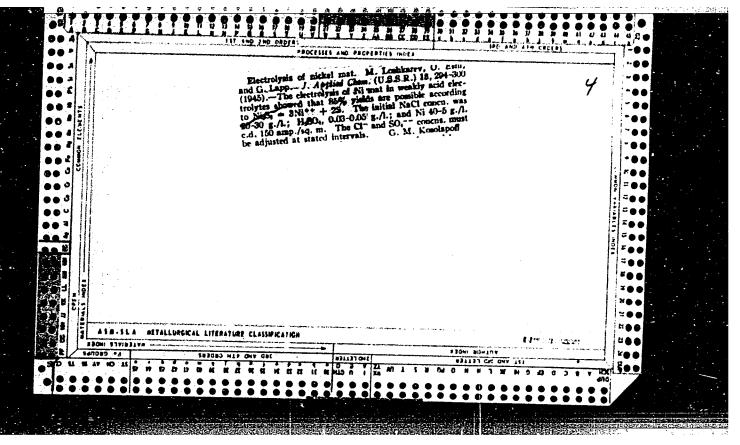
SO: U-3600, 10 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 6, 1949).

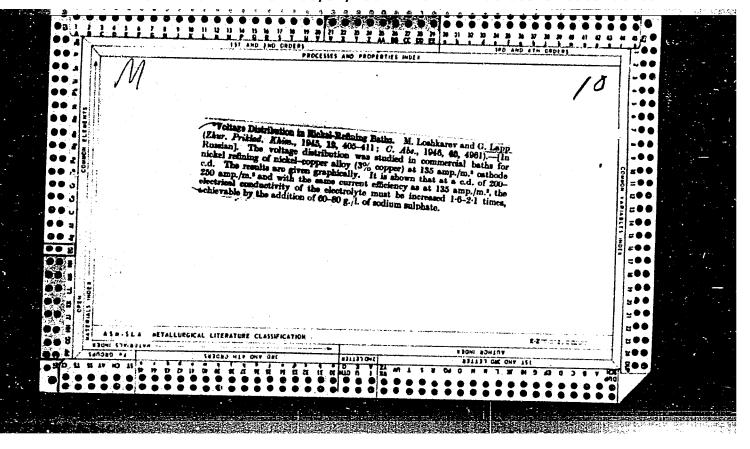
LAPOVOK, Ya. (UAIFA)

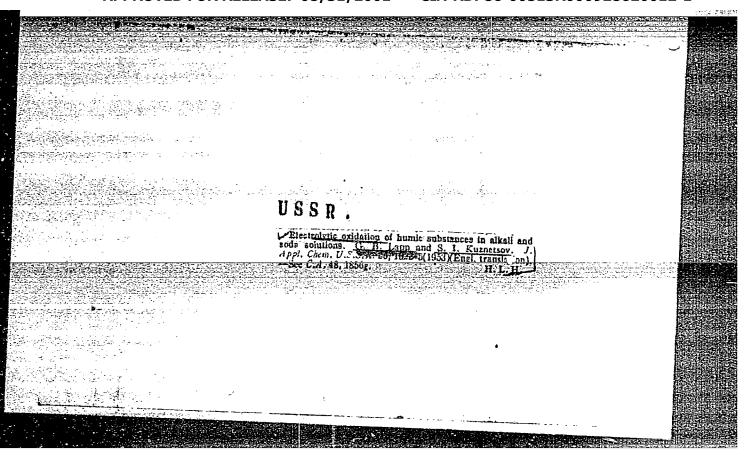
Shortwave radio transmitter-receiver. Radio no.3:23-25 Mr*64 (MIRA 17:7)

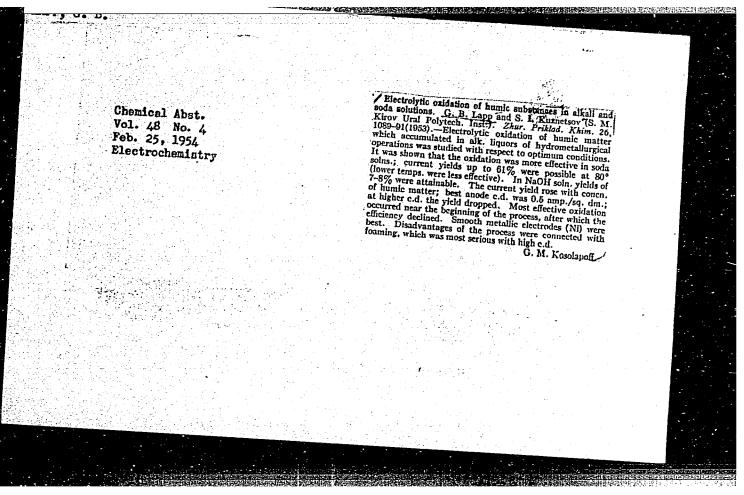


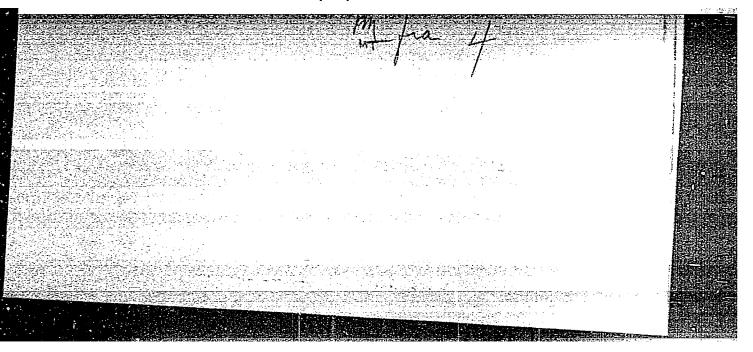
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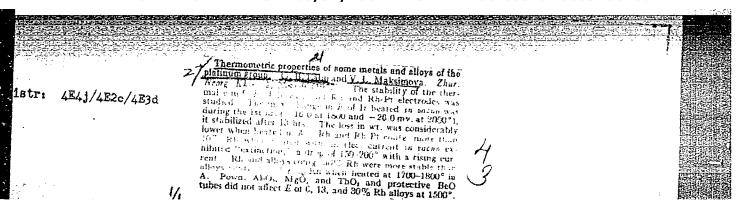


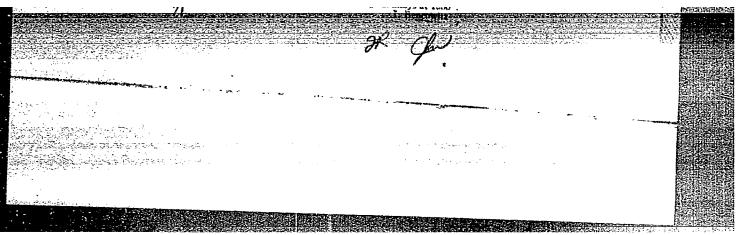












Anakhovskiy, A.P.; Gordov, A.N.; Clapp, G.B.; Leredeva, Z.S.; Maksimova, V.L.; Okkilohemiko, G.F.; Frokopiyev, P.N.; Ergardy, N.N.

Investigating new types of thermocouples for measuring temperatures up to 1,800° C. Truly inst.Kom.stand., mer i izm.prib. no.42: 29-38 '60. (Thermocouples) (MIRA 14:1)

32329 S/081/61/000/024/027/086 B102/B138

24.5500

AUTHORS:

Adal byskiy, A. P., Gordov, A. N., Lapp, G. B., Legarda, Z. S., Maksimova, V. L., Omel chenko, G. F.,

Prokop'yev, P. N., Ergardt, N. N.

TITLE:

Examination of new types of thermocouples for measuring

temperatures up to 1800°C

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 24, 1961, 173, abstract

24Ye52 (Tr. in-tov Kom-ta standartov, mer i izmerit.

priborov pri Sov. Min. SSSR, no. 42(102), 1960, 29-38)

TEXT: The suitability of thermocouples made of Pt-Rh thermoelectrodes with varying Rh concentrations (1, 6, 10, 13, 20, 30, 40%) was studied

for temperature measurements between 1500 and 1700°C. The authors checked the homogeneity of the thermoelectrodes and the effect of contact with ZrO2, ThO2, BeO and Al2O3 on the thermo-emf of the thermocouples examined. These oxides were used as refractories for insulating and

Card 1/2

S/137/61/000/011/009/123 A060/A101

18.1200

1530 1418

AUTHORS:

Adakhovskiy, A. P., Gordov, A. N., Lapp, G. B., Lebedeva, Z. S., Maksimova, V. L., Omel'chenko, G. F., Prokop'yev, P. N., Ergardt,

N. N.

TITLE:

Investigation of new types of thermocouples for measuring tempera-

tures up to 1,800°C

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 11, 1961, 12, abstract 11B71 ("Tr. in-tov Kom-ta standartov, mer i izmerit. priborov pri Sov.

Min. SSSR", 1960, no. 42 (102), 29 - 38)

TEXT: An investigation was carried out upon thermocouples from alloys of Pt and Rh, containing 1, 6, 10, 13, 20, 30, and 40 % Rh. The influence of the refractory materials used for reinforcing the thermocouples was clarified. The least influence upon the thermoelectric characteristics of Pt-Rh alloys was exerted by oxides of Th, Be, and Al. Zr oxide has a strong influence. As the diameter of thermoelectrodes increases, the influence of the material is reduced. The influence of the refractory ceramic at high temperatures is reduced as the Rh content in the alloy is raised. The greatest stability is demonstrated by

Card 1/2

S/137/61/000/011/009/123 A060/A101

Investigation of new types of thermocouples ...

thermocouples of ΠP 30/6 (PR 30/6). Under repeated measurements of the temperature of liquid steel by means of them, and without renewing the working junction, their characteristic showed almost no change. The thermocouples ΠP 100/20 (PR 100/20) were withdrawn from testing because of their excessive fragility, even though their readings remained practically constant.

G. Glinkov

[Abstracter's note: Complete translation]

Card 2/2

\$/194/61/000/011/011/070 D256/D302

AUTHORS:

Adakhovskiy, A.P., Gord A.N., Lapp, G.B., Lebedeva, Z.S., Maksimova, V.L., Omelichenko, G.F., Prokop'yev, P.N. and Ergardt, N.N.

TITLE:

Investigating new types of thermocouples for tem-

perature measurements up to 1800°C

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 11, 1961, 28, abstract 11 A225 (Tr. in-tov Komta standartov, mer i izmerit. priborov pri Sov. Min.

SSSR, 1960, no. 42 (102), 29-38)

Investigations are described of thermocouples made TEXT: of platinum-rhodium alloys of various percentage composition of the two elements. Thermoelectrical uniformity of the alloys was determined using a special arrangement consisting of an oven, an inter-lacing device and a potentiometer. The presented tables include results of testing and calibration data for thermocouples of the

Card 1/2

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Investigating new types of ...

S/194/61/000/011/011/070 D256/D302

following types: ΠP 13/1 (PR 13/1), ΠP 30/6 (PR 30/6), ΠP 30/13 (PR 30/13) and ΠP 40/20 (PR 40/20). Thermocouples ΠP 10/0 (PR 10/0), ΠP 30/6 (PR 30/6) and ΠP 100/20 (PR 100/20) were tested for long-time stability of the thermo-emf. Recommendations for industrial use of the thermocouples are given. 5 figures. 4 tables. Abstracter's note: Complete translation

Card 2/2

S/263/62/000/003/006/015 1004/1204

24.5500

AUTHOR: Adakhovskiy, A. P., Gordov, A. N., Lapp, G. B., Lebedeva, Z. S., Maksimova, V. L.

Omelchenko, G. F., Prokopyev, P. N. and Erhardt, N. N.

TITLE: Investigation of new types of thermocouples for measurement of temperatures up to 1800°C

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk. Izmeritel'naya tekhnika, no. 3, 1962, 38, abstract

32.3.229. "Tr. in-tov Kom-ta standartov, mer i izmerit. priborov, pri Sov. Min. SSSR",

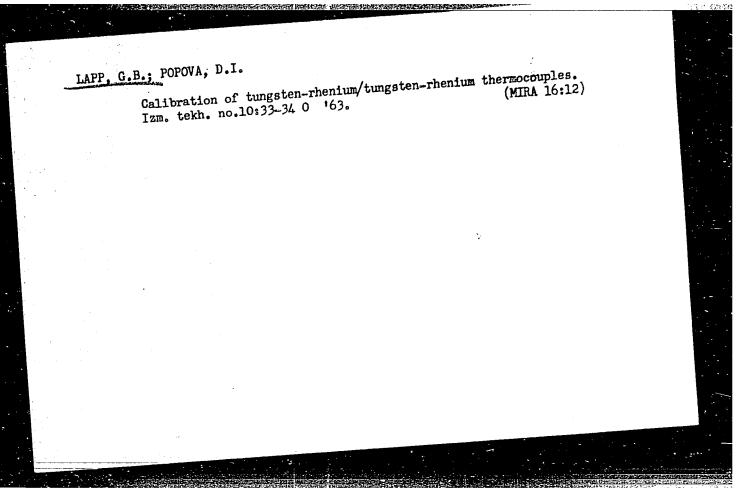
1960, no. 42 (102), 29-38

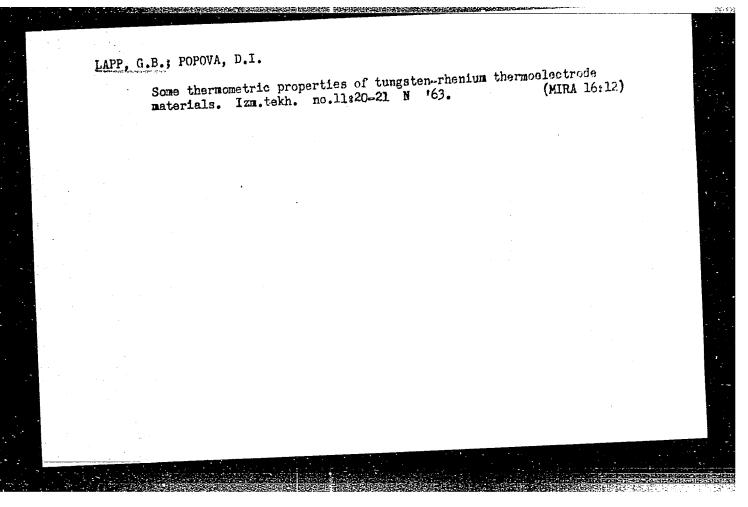
TEXT: The authors studied thermocouples, both electrodes of which were made of platinum-rhodium alloys of varying composition. Sverdlov sovnarkhoz (district economic council) produced platinum-rhodium wires with different rhodium contents, 0.3, 0.5, 0.8 and 1.0 mm in diameter and studied their thermoelectric uniformity. The latter was determined on a semi-automatic industrial set-up consisting of an oven for heating the junction of the investigated wire with a comparison electrode, a rewinding unit and a laboratory potentiometer. The degree of uniformity of the thermoelectric material was determined by the value of the thermoelectric emf created at the junction of the investigated wire with a comparison electrode. The comparison electrode was formed by a piece of wire cut from an end of the investigated bundle. The oven of the set-up was built

1/6

Card 1/2

(29) The Second All-Union Conference on Rhenium, sponsored by the Institute of Metallurgy imeni A. A. Baykov, Academy of Sciences USSR, and the State Institute of Rare Metals, was held in Moscow 19-21 November 1962. A total of 335 representatives from 83 scientific institutions and industrial establishments participated. Among the reports presented were the following: autoclave extraction of Re from Cu concentrates (A. P. Zelikman and A. A. Peredereyev); Re extraction from the gaseous phase .(V. P. Savrayev and N. L. Peysakhov); recovery of Re by sorption and ion interchange (V. I. Bibikova, V. V. Il'ichenko, K. B. Lebedev, G. Sh. Tyurekhodzhayeva, V. V. Yermilov, Ye. S. Raimbekov, and M. I. Filimpnov); production of carbonyl Re (A. A. Ginzburg); electrolytic production of high-purity Re and electroplating with Re (Z. M. Sominskaya and A. A. Nikitina); Re coatings on refractory metals produced by thermal dissociation of Re chlorides (A. N. Zelikman and N. V. Baryshnikov); plastic deformation and thermomechanical treatment of Re (V. I. Karavaytsev and Yu. A. Sokolov); growth of Re single crystals and effect of O2 on their properties (Ye. M. Savitskiy and G. Ye. Chuprikov); Re-Mo, Re-W, and Re-precious-metal alloys (Ye. M. Savitskiy, M. A. Tylkina, and K. B. Povarova); synthesis of Re nitrides, silicides, phosphides, and selenides G. V. Samsonov, V. A. Obolonchik, and V. S. Neshpor); weldability of Re-Mo and Re-W alloys (V. V. D'yachenko, B. P. Morozov, and G. N. Klebanoy); new fields of application for Re and Re alloys (M. A, Tylkina and Ye, M. Savitskiy); and Re-Mo alloy for thermocouples Danishevskiy, Yu. A. Kocherzhinskiy, and G. B. Lapp). Tavetnyye metally, no. 4, Apr 1963, pp 92-93





L 23618-65 EWT(m)/EWA(d)/EWP(t)/EWP(b) IJP(c) MJW/JD/JG/MLK

ACCESSION NR: AT5002786 \$/0000/64/000/000/0218/0220

AUTHOR: Lapp, G. B.; Popova, D. I.

15+,

TITLE: Stability of the thermoelectromotive force of tungsten-rhenium thermocouples

SOURCE: Vsesoyuznoye soveshchaniye po probleme reniya. 2d, Moscow, 1962. Reniy (Rhenium); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1964, 218-220

TOPIC TAGS: tungsten alloy, rhenium alloy, thermocouple, thermoelectromotive force, thermocouple annealing

ABSTRACT: The authors studied the change in the thermo-emf of alloys of tungsten containing 5, 10, and 20% Re (respectively, VR-5, VR-10, and VR-20) by subjecting the specimens to three consecutive annealing treatments (each time under different conditions). Values of the thermo-emf after each treatment are tabulated as a function of the duration of the annealing (5 min. to 25 hrs.). The VR-5/20 thermocouple was calibrated by means of the melting points of pure copper, nickel, palladium, platinum, and rhodium. Comparison of the calibration with that performed earlier by S. K. Danishevskiy shows an insufficient thermoelectric reproducibility of the experimental batches of alloys.

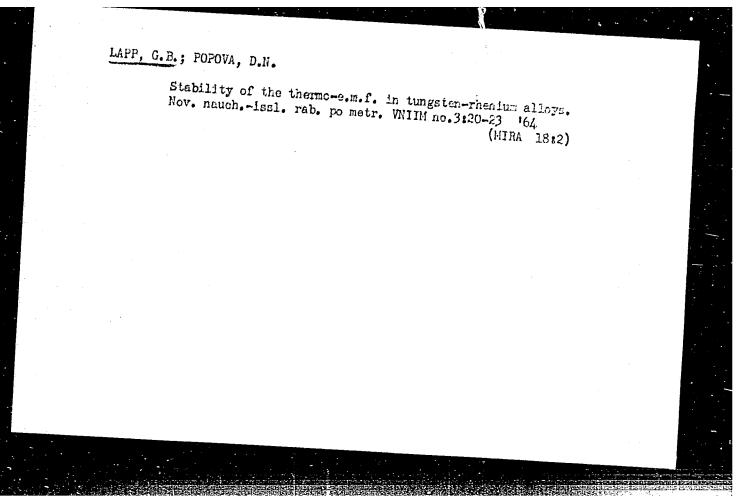
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BRAGIN, B.K.; LAPP, G.B.; LEPIN, I.R.

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Effect of the annealing on the thermoelectromotive form of thermoelectrode platinrhodium. Trudy inst.Kom.stand mer i izm. prib. no.71:220-222 '63. (MIRA 17:9)

1. Sverdlovskiy filial Vsesoyuznogo nauchno-issled vatel'skogo instituta metrologii im. D.I. Mendeleyeva.



L 32261-65 EWT(m)/EWA(d)/EWP(t)/EWP(b) IJP(c) JD/JB ACCESSION NR: AT40 5676 S/2680/84/000/022/0143/0168 AUTHOR: Aleksaknir, I. A.; Lepin, I. R.; Lapp, G. B.; Bragin, TITLE: Problems involved in the quest for thermoelectrode oxidation-resistant SOURCE: Moscow. Gosudarstvenny*y nauchno-issledovatel'skiy i proyektny*y institut splavov i obrabotki tsvetny*kh metallov. Trudy*, no. 22, 1964. Issledovaniye splavov dlya termopar (Studying alloys for thermocouples), 143-158 TOPIC TAGS: rare earth metal, oxidation, thermoelectromotive force ABSTRACT: The data dealing with ir thermocouple containing 40% Rh are scarce. Conversely, there is ample literature both in the Soviet Union and abroad on them occupies with 60% Rh. The authors discuss foreign research in this field at great length and conclude that Soviet investigations stand in good agreement with fore gre findings. However, the amount of Rh additions (40 or 60% Rh) remains a cortic versial subject. The investigations conducted by the Sverdlovsk branch of the Card 1/2

L 32261-65 ACCESSION NR: AT4045676

All-Ihion Scientific Research Institute of Metrology show that after annealing at bhigh temperatures the thermoelectromotive force increases with 60% Rh. The Ir60Rh/Ir thermocouple has a life span of about 100 hrs. at 1800 C. Another Soviet paper suggests the employment of such thermocouple in an oxidizing atmosphere at 2300 C. The authors recommend the employment of an Ir60Rh/Ir couple for a service period of 10 to 20 hours and at 2000 C. They point out such shortcomings as the ready evaporation of the Ir electrode and the non-staller character of the electromotive force and the such char

character of the electromotive force under the effect of oxidation. The possibilities of increasing the life span of an Ir60Rh/Ir course along with the search for more stable alloys should be considered and Ir-Right Ir-Pt/Ir-Pd and Ir-Au'/ investigated for that purpose. Furthermore, a meneficial effect may possibly be achieved by the addition of base metals. Orig. art. has: 9 figures and 4 tables.

ASSOCIATION: Gosudarstvennyy nauchno-issledovatel skiy: proyektnyy institut splayov i obrabotki tsvetnykh metallov, Moscow (State Scientific Research and Desublimitation): Of ENCL: Of ENCL: Of SUB CODE: MM

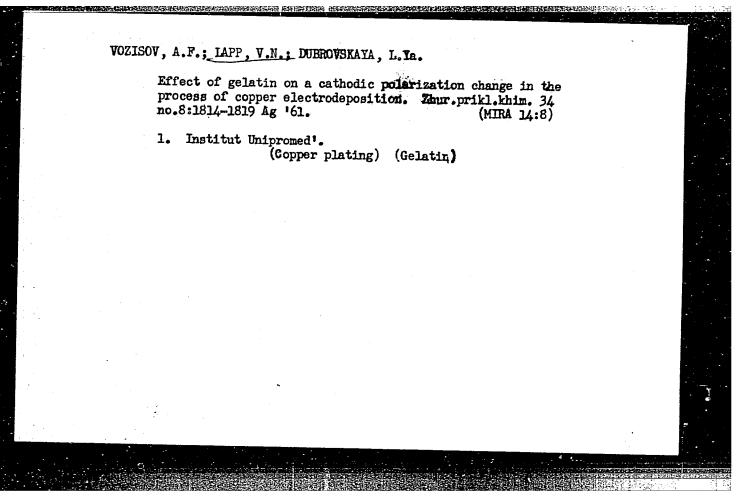
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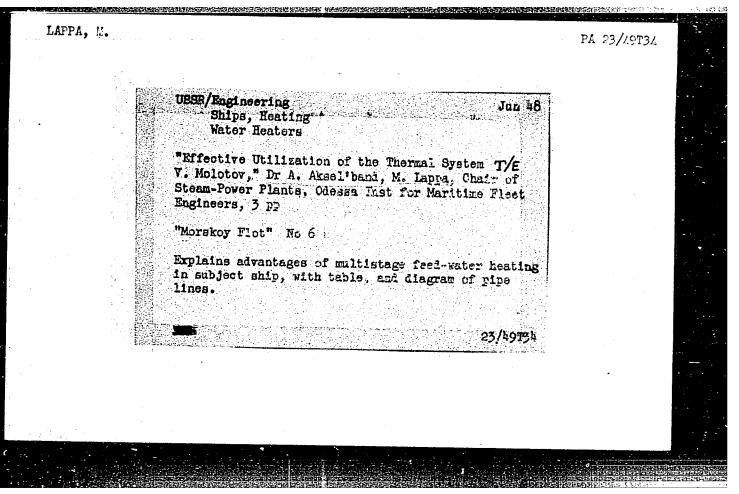
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LAPP. M.A.; SUDOV, B.A.

Prospecting for deep-seated ore bodies and deposits based on halos of wide dispersion elements. Sov. geol. 6 no.10:112-(MIRA 17:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metodiki i tekhniki razvedki.





AKSKL'BAND, Aba Moshkovich; IAPPA, Mikhail Ivanovich; VINOGRADOVA, N.M., redaktor; MOISEYEV, A.A., retsenzent; VOLKOVA, Ye., tekhnicheskiy redaktor.

[Operation of ships' exhaust-steam turbine equipment] Ekspluatatsiia sudovykh turbinnykh ustanovok otrabotavshego para. Moskva, Izd-vo "Morskoi transport," 1954. 146 p. (MLRA 8:1)

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LAPPA, M.I.

Subject : USSR/Ergineering

AID P - 1835

Card 1/1

Pub. 110-a - 12/16

Authors

: Aksel band, A. M., Lappa, M. I. and Litvak, V. I., Kands. of Tech. Scipperson and Litvak, V. I.,

Title

: Furnace with a rabble plate for marine fire-tube

Periodical: Teploenergetika, 3, 52-56, Mr 1955

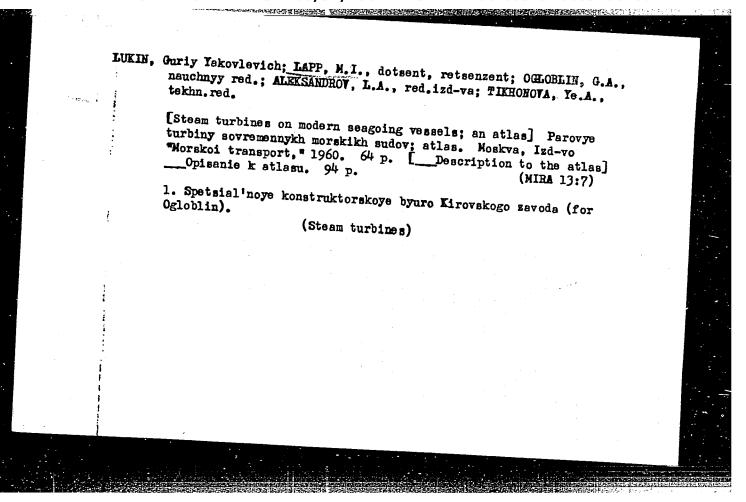
Abstract

The authors describe an automatic device of their own design for feeding a marine steam fire-tube boiler using solid fuel. The chains driving the fire grater-bars were designed by Eng. Vasil'yev. The grates are equipped with a rabble of triangular cross section. The authors describe in detail the automatic control system regulating the movement of the stoker. The results of tests made in 1952 and 1953 are summarized in a table. Six drawings and

Institution:

Odessa Institute of Naval Engineers

Submitted No date



26.2120

S/114/60/000/007/003/009 E194/E455

AUTHOR:

Lappa, M.I., Candidate of Technical Sciences

TITLE:

Determination of Turbine-Rotor Deflection on Passing

Through the First Critical Speed

PERIODICAL: Energomashinostroyeniye, 1960, No.7, pp.9-12

In designing turbine rotors, calculations are usually TEXT: made both of the critical speeds and the strength. the amplitude of oscillations as the rotor passes through the critical speed is not calculated, nor is the influence of various factors on the amplitude. This position is clearly unsatisfactory. Experiments were made to determine the influence of the speed of transition through the critical speed on the amplitude of resonance, using a turbo-generator of 3200 kW. The amplitude relative to the stator was measured by inductive pickups in conjunction with an oscillograph. The speed was measured with an inductive pickup, to an accuracy of 1%. The tests showed that the acceleration on passing through the critical speed is (2 to 20) $1/\sec^2$ for ship's turbines and less in stationary turbines. For such accelerations the shaft deflection during transition is little different from the deflection with steady-state resonance.

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Determination of Turbine-Rotor Deflection on Passing Through the First Critical Speed

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only is it simpler to make the calculations for the steady state but it is advisable, because a turbine, particularly one of variable speed, may occasionally work for a considerable time near to a critical speed. In deriving the equations for the shaft deflection at the critical speed, it is assumed that the work due to the disturbing force is, over a single cycle, equal to the absolute value of the work of overcoming a resistance which consists of the sum of internal and external resistances. The resistances of the oil films in the plain bearings are classed as external and all the other losses as internal, namely those due to imperfect elasticity of the metal, gland friction with the shaft, friction in the coupling and friction between the Expressions are then derived for the disturbing force, the internal resistance and the external resistance, and by appropriate combination of these equations, Eq.(6) is obtained for the maximum deflection of the rotor at the first critical In order to use this formula, certain coefficients must Card 2/6

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Determination of Turbine-Rotor Deflection on Passing Through the First Critical Speed

be determined experimentally, particularly those in the bearing-resistance equations. In order to investigate the transition process and, in particular, to determine some of the necessary coefficients, a rig was set up so that tests could be made with various values of the bearing coefficients. rig the number of discs on the rotor could be varied up to 6. The rotor was driven at speeds up to 3700 rpm by a 12 kW d.s. motor. The coupling between the motor and rotor could be made flexible or solid as required. The critical speed of the rotor could be altered both by moving the bearing pedestal and by altering the number of discs. Deflection measurements were made with differential inductive pickups of the transformer type. A phase-shifter was provided to determine the phase displacement between the direction of the disturbing force and that of the Before the tests were started, the rotor was dynamically balanced directly in the bearing, the location and value of the balancing load being determined at the critical Card: 3/6

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Determination of Turbine-Rotor Deflection on Passing Through the First Critical Speed

speed from measurements of rotor deflection and phase angle. The balancing was so good that there was hardly any increase of deflection at the critical speed. The oscillograms were taken with steady-state oscillation conditions in the region of the first critical speed and also on passing through the critical speed at various rates of angular acceleration. Measurements. were made of rotor deflection, speed and phase shift. Appropriate graphs were plotted. Curves were plotted of the rotor deflection at the critical speed as a function of the unbalanced centrifugal force applied to the bearings. graphs are straight lines but they do not pass through the origin as might have been expected, because the shaft whips a little, even when the unbalanced centrifugal force is zero. The angle of slope of these lines characterizes the maximum amplitude occurring at critical speeds. The necessary values of the various resistance coefficients were determined, The experimental results are in good agreement with values calculated by Card 4/6

S/114/60/000/007/003/009 E194/E455

Determination of Turbine-Rotor Deflection on Passing Through the First Critical Speed

The bearing resistance Chernavskiy's theoretical formula. coefficient is also very similar to that obtained by Hagg and The results Sankey (Journal of Applied Mechanics, 1956, No.2). showed that changes in the oil viscosity have little influence Plain bearings with on the damping properties of the bearings. an oval bore have less damping effect than those with Calculations by the method, and tests on cylindrical bore. turbines under normal conditions of operation, have shown that with an unbalanced centrifugal force of 0.75 to 1% of the rotor weight, which is permissible for rotors of ship's turbines, the amplitude of transverse oscillation at resonance may be reduced to a value which is quite permissible from the standpoint of gaps at glands and the strength of the shaft. Indeed, because of the small deflections at the critical speed, it is possible to reduce clearances in the glands and to improve the reliability of turbines with flexible rotors. Hence, there is the possibility of using flexible rotors as well as rigid in turbines working at Card 5/6

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Determination of Turbine-Rotor Reflection on Passing Through the First Critical Speed

variable speed, in particular for ship propulsion. There are 5 figures, 1 table and 9 references: 8 Soviet and 1 non-Soviet.

Card 6/6

LAPPA, M.I., kand.tekhn.nauk

Experimental investigation of main marine turbine operations with flexible rotors in the critical speed range. Sud.sil.ust. no.1:25-33 '61. (MIRA 15:7)

l. Kafedra parosilovykh ustanovok Odesskogo instituta inzhenerov morskogo flota.

(Marine turbines—Testing)

S/114/62/000/002/004/004 E194/E955

26.2120

AUTHOR:

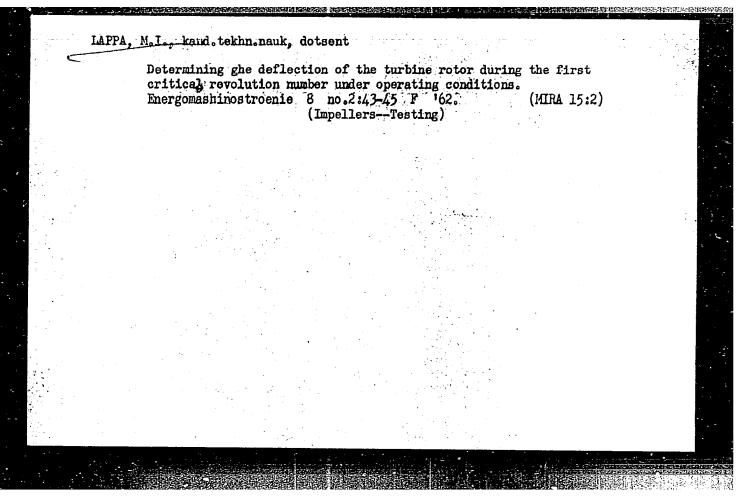
Lappa, M.I., Candidate of Technical Sciences, Docent

Determination under operating conditions of the deflection of a turbine rotor at the first critical speed

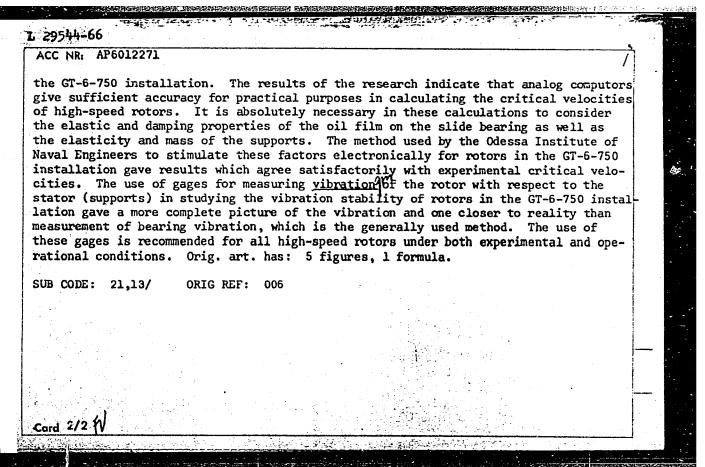
PERIODICAL: Eners

Energomashinostroyeniye, no.2, 1962, 43-45

TEXT: The object of this investigation was to determine experimentally the deflection of the rotors of several turbines at calculated by the procedure given by the author in a previous paper turbine rotors was measured with inductive pick-ups. The phase of pick-up readings with a 500 c/s time scale. Tests were made on It was found that since the elasticity of the bearing pedestal was tical and horizontal directions are slightly different and, therefore, the trajectory of the shaft centre at resonance is a



29544-66 EWT(d)/EWT(m)/EWP(w)/EWP(1)/T IJP(c) WW/EM/DJ ACC NR: AP6012271 SOURCE CODE: UR/0114/65/000/011/0028/0032 AUTHOR: Lappa, M. I. (Candidate of technical sciences, Docent); Gusak, Ya. H. (Engi-3444 ORG: none 86 کیج TITLE: Vibrations of high-speed gas turbine installations 8 24 SOURCE: Energomashinostroyeniye, no. 11, 1965, 28-32 TOPIC TAGS: turbine rotor, gas turbine, vibration measurement, electronic simulation ABSTRACT: Tests were made under simulated and natural conditions to determine the effect of an oil film and support rigidity on the critical rotor speeds of the GT-6-750 γ gas turbine installation made by the Ural Turbine Engine Plant. The research was done by the Ural Plant in conjunction with the Odessa Naval Engineering Institute. It is shown that an oil film has a considerable effect on the theoretical critical velocities of the system which consists of the split shaft and massive elastic supports in the GT-6-750 installation. The use of a common middle support for both rotors has practically no effect on the critical velocities, which are ~4250 rpm (for a 2-support rotor in the high-pressure turbine) and ~ 5200 rpm (for a 2-support rotor in the low--pressure turbine). The amplitudes of the rotor vibrations in the resonance regions are within permissible limits due to the effective dumping properties of the bearing in Card 1/2 UDC: 621.438 : 62-253.001.5



ACC NR: AR6031844

SOURCE CODE: UR/0285/66/000/006/0007/0007

AUTHOR: Lappa, M. I.

TITLE: Selection of the critical speed for rotors of main ship turbines

SOURCE: Ref. zh. Turbostroyeniye, Abs. 6.49.29

REF SOURCE: Sudostr. i morsk. sooruzh. Resp. mezhved. nauchno-tekhn. sb., vyp. 1, 1965, 79-85

TOPIC TAGS: turbine rotor, turbine stator, shipbuilding engineering, marine engineering, rotor vibration

ABSTRACT: It is pointed out that the presently existing definition of rotor type by critical speed on absolutely rigid supports $^\omega$ is inadmissible for modern ship turbines, since the actual critical speed can be 30 to 50 percent below $^\omega$. The rotor type is determined, preceding from the oscillations of the rotor oil film, and stator system. A calculation method is presented, making it possible to determine, using nomographic charts with sufficient accuracy, the change in critical speed resulting from the influence of the oil film and the supports and to select $^\omega$ for a rigid and flexible rotor, taking the influence of these factors into

Card 1/2

UDC: 621, 165, 001, 5

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consideration. A nomograph has been made to determine the magnitude of the rotor vibration at critical speeds. In the majority of present-day main ship turbines, it is structurally impossible to obtain a rigid rotor. In high-speed turbines, even if the nonequilibrium exceeds by several times the admissible degree, the rotor vibration at critical speed is small. It permits the use of flexible rotors in main ship turbines, as well as the development of more effective turbine designs.

[Translation of abstract]

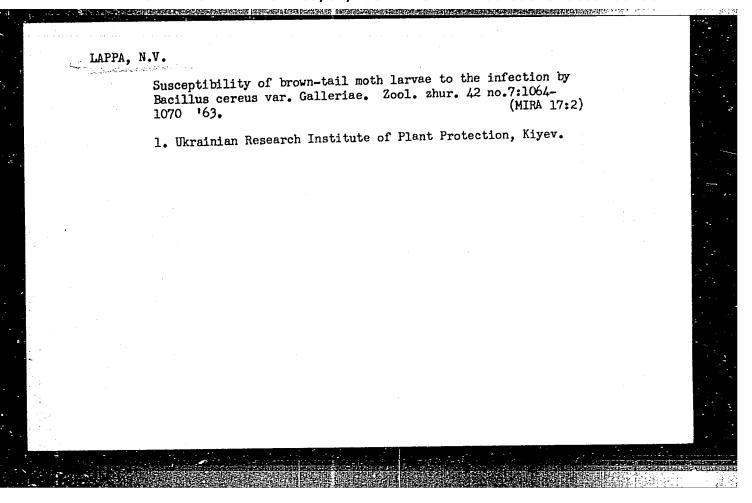
SUB CODE: 14/

Card 2/2

LAPPA, N.V., aspirantka

Porecasting the propagation of the brown-tail moth. Zashch. rast. ot vred. i bol. 6 no.10:46 0 61. (MIRA 16:6)

1. Ukrainskiy institut zashchity rasteniy.
(Ukraine-Brown-tail moth)

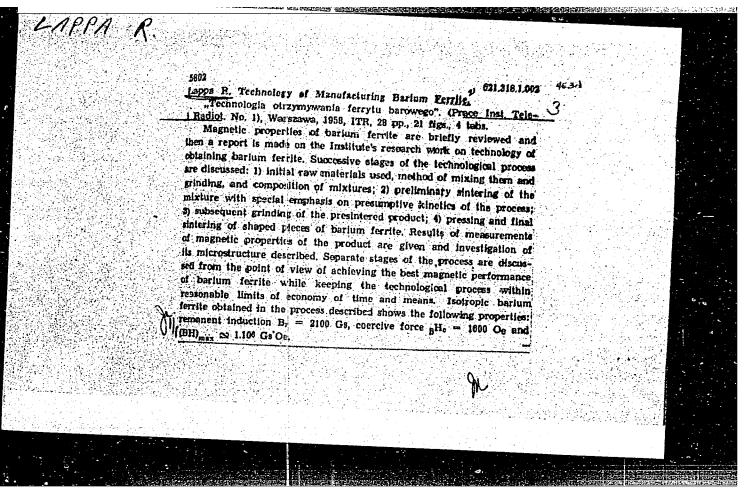


LAPIA, R. ; SCHUBERT, R.

Analyzing the feedback between the anode and the grid in two-grid thyratrons.

P. 158, (Strojnoelektrotechnicky Casopis) Vol. 8, no. 3, 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Acessions (EEAI) Vol. 6, No. 11 November 1957



CIA-RDP86-00513R000928620012-1 "APPROVED FOR RELEASE: 08/31/2001

POLAND/Solid State Physics - Crystallization.

: Ref Zhur - Fizika, No 6, 1959, 13061 Abs Jour

Author

: Lappa, Ryszard

Inst Title

: Work on Producing Single Crystals of Ferrites.

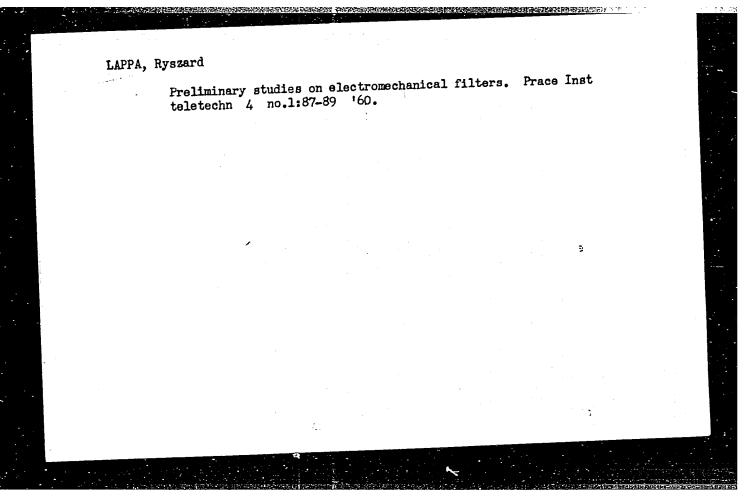
Orig Pub : Przegl. telekomun., 1958, 31, No 8-9, 229-230.

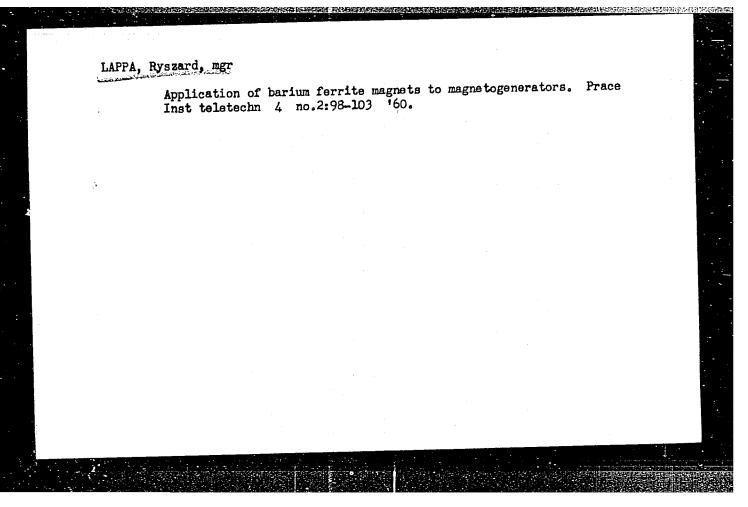
Abstract : No abstract.

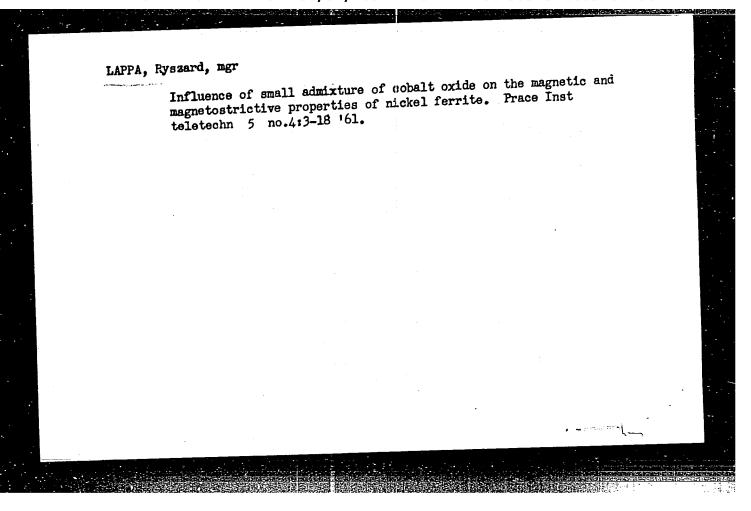
Card 1/1

- 41 -

EWT(1)/BDS/EED-2 AFFTC/ASD S/081/63/000/005/044/075 L 12287-63 Lappa, R. AUTHOR: The effect of small additions of ecbalt on the magnetic and magnetostrictive properties of nickel ferrite TITLE: Referativnyy zhurnal, Khimiya, no. 5, 1963, 393, abstract 5M23 (Prace Inst. Tele. i radiotechn, 1961, Vol. 5, no. 4, 3 - 18) PERIODICAL: The influence of small additions of cobalt oxide on magnetic and magnetostrictive properties of nickel ferrite was investigated. It was found possible to produce nickel ferrite with addition of 0.5 mol \$6 f CoO with an initial permeability stable to \$250.10-6 per degree, and also with stability of resonance oscillations by addition of cobalt 0.2 % mol of the order of 2.10-6 per degree. The characteristics for various types of ferrites were given with simultaneous presentation of the possibility of obtaining the effect of compensation for ferrites with various characteristics of permanent anisotropy. Comparisons are made of the experimentally obtained effects, the temperature conditions of permeability, the coefficient of electromechanical coupling and the resonance frequency. The experiments were conducted from - 50 to +80° C. S. Gorelkina. [Abstractor's note: Complete translation]







5/196/62/000/017/002/005 E194/E155

94,2200

Influence of small additions of cobalt on the magnetic Łappa, Ryszard AUTHOR:

and magnetostriction properties of nickel ferrite TITLE:

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.17, 1962, 3, abstract 17 B 24. (Prace Inst. Tele-i

radiotechn., v.5, no.4, 1961, 3-18). (Polish:

summaries in English, Russian, French and German).

The influence of small additions of CoO on the magnetic and magnetostriction properties of Ni-ferrite is considered. A model of the formation of magnetic-crystalline anisotropy is presented and the cause of its temperature dependence is shown. Characteristics are given of various types of ferrites and the possibility is also shown of compensating anisotropy at a given temperature by combining two ferrites with constant given temperature by combining two leffices with constant anisotropy of opposite sign. The observed experimental effects are discussed and an explanation is offered for the observed temperature-dependence of the initial permeability, the coefficient of electro-mechanical bonding and the resonance frequency of

Card 1/2